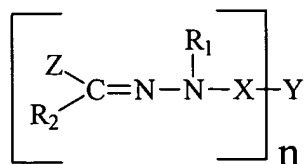


ORGANOPHOTORECEPTOR WITH CHARGE TRANSPORT MATERIAL WITH PHENOTHIAZINE HYDRAZONE GROUPS

Abstract of the Disclosure

Improved organophotoreceptor comprises an electrically conductive substrate and
5 a photoconductive element on the electrically conductive substrate, the photoconductive
element comprising:

(a) a charge transport material having the formula



where n is an integer between 2 and 6, inclusive;

10 R_1 and R_2 are, independently, H, an alkyl group, an alkaryl group, or an aryl
group;

X is a linking group having the formula $-(\text{CH}_2)_m-$, branched or linear, where m is
an integer between 0 and 20, inclusive, and one or more of the methylene groups is
optionally replaced by O, S, C=O, O=S=O, a heterocyclic group, an aromatic group,
15 urethane, urea, an ester group, a NR_3 group, a CHR_4 group, or a CR_5R_6 group where R_3 ,
 R_4 , R_5 , and R_6 are, independently, H, hydroxyl group, thiol group, an alkyl group, an
alkaryl group, a heterocyclic group, or an aryl group;

Y comprises a bond, C, N, O, S, a branched or linear $-(\text{CH}_2)_p-$ group where p is an
integer between 0 and 10, an aromatic group, a cycloalkyl group, a heterocyclic group, or
20 a NR_7 group where R_7 is hydrogen atom, an alkyl group, or aryl group, wherein Y has a
multivalent structure selected to form n bonds with the corresponding X groups; and

Z comprises a heterocyclic group selected from the group consisting of
phenothiazine group, phenoxazine group, phenoxathiin group, dibenzo(1,4)dioxin group,
thianthrene group, and phenazine group; and

25 (b) a charge generating compound.

Corresponding electrophotographic apparatuses and imaging methods are
described.